Chapter 33

Lights

TABLE OF CONTENTS

33-10-00 FLIGHT COMPARTMENT

For controlling the generator function a low voltage monitor is installed at the rear lower instrument panel. The indicator is dimmable and has a built-in bulb testing device („press to test“).

The electrical wiring is panel internal.

33-40-00 EXTERIOR

Refer to Figure 1. The lighting units (1) installed at the wing tips incorporate the red or green navigation lights on the forward section, a strobe light in the center and a clear tail position light on the aft section. They are mounted at the wing tip panel (2). The strobe light power supplies (10) are mounted on special attachment plates (11) inside the wing.

The wiring is routed through an aluminium tube inside the wing and along the left resp. right upper longeron to the rear instrument panel. Ground bonding leads are installed between the fuselage, the aluminium tube, (the pitot tube mount*), the strobe light power supply and the wing tip panels.

** LH wing only*

The switches and circuit breakers are located at the rear instrument panel.

33-41-00 MAINTENANCE PRACTICES

33-41-01 Navigation/Strobe Lights Removal/Installation

Refer to Figure 1.

WARNING

High Voltage! Wait 5 minutes after shutting off before starting any work on the strobe light system.

1 Disconnect the battery and wait 5 minutes.

NOTE

To change a navigation light bulb or glass the removal of the Phillips screws (6) is sufficient for access.

2 Remove the lighting unit (1) in combination with the wing tip panel (2) per Chapter 57.

3 Remove the lighting cover Phillips screws (6).

4 Remove the lighting cover and pull out the strobe light (7) some centimetres.

5 Remove the lighting unit attachment bolts M4x12/20 (8).

6 Remove the lighting unit.

7 Install in reverse sequence of removal after applying Silicon between the wing tip panel and the lighting unit.

33-41-02 Strobe Light Power Supply Removal/Installation

Refer to Figure 1.

WARNING

High Voltage! Wait 5 minutes after shutting off before starting any work on the strobe light system.

1 Remove the wing tip attachment plate with the lighting unit per Chapter 33-41-01 following the steps 1 to 5.

2 Disconnect the electrical wiring of the power supply.

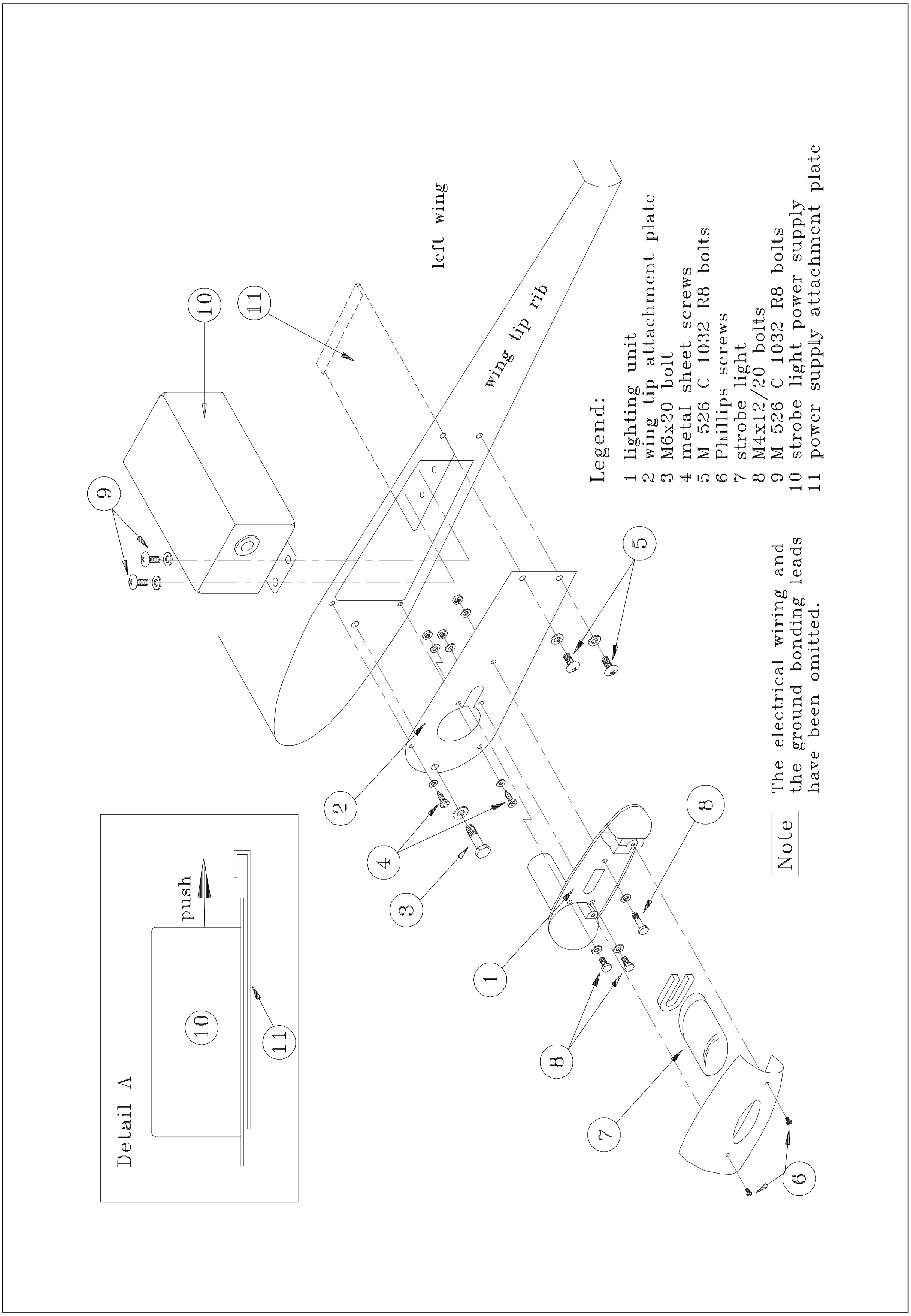
3 Remove the AN 526 C 1032 R8 bolts (9) and disconnect the ground bonding lead.

4 Pull out the power supply (10) 2 centimetres and remove.

CAUTION

DC units are polarity sensitive. Black lead is negative.

5 Install in reverse sequence of removal observing Detail A of Figure 1 when attaching the power supply on the attachment plate (11).



Navigation/Strobe Lights Removal/Installation
Figure 1